

Arts & Sciences

The Magazine of the **College of Arts & Sciences** at the University of North Carolina Wilmington

MESSAGE FROM THE DEAN



Dean Cordle speaks to supporters of the arts as Chancellor DePaolo (lower left) looks on. The continuing ascendance of creative writing at UNCW (cover story) and the establishment of the Thomas S. Kenan Distinguished Professorship in the Department of Music are two examples of the university's commitment to the arts.

In the last issue of the *Arts & Sciences Magazine*, we focused on applied learning, a strength within the College of Arts and Sciences and a mark of excellence at UNCW. In this issue, we introduce our readers to some extraordinary **places** in the College of Arts and Sciences where examples of applied learning can be found.

We take you to the Department of Music where UNCW jazz students learn, practice and perform with our Thomas S. Kenan Distinguished Professor of Jazz, percussionist Joe Chambers. Chambers has sterling professional credentials, having recorded extensively for the celebrated Blue Note record label and having collaborated with such artists as Freddie Hubbard, Sonny Rollins, Herbie Hancock and Dizzy Gillespie. Not only a talented performer, Chambers is also a highly successful composer. Here at UNCW, music students work side-by-side with Chambers, whose teaching philosophy emphasizes composition as essential to a musician's training. You will read and see why UNCW is an extraordinary place for music students to develop as professionals in the article *Jazz Speaks*.

Our cover story is about another very special place—the Department of Creative Writing. Each year, we invite the most promising student writers in the country to work with our faculty of nationally and internationally recognized authors as full members of a literary community. Our young program competes with the oldest and most prestigious creative writing programs in North America. Celebrating our the MFA program's designation by *The Atlantic Monthly* as one of the top "Five Innovative/Unique Programs" in the country and also in recognition of the department's 10-year anniversary, we invite you to read and see how we came so far, so fast on page 7.

Do you see yourself knee deep in marsh water trudging the tidal creeks? As an undergraduate or graduate student working with researchers Martin Posey and Amy Wilbur, you could be helping to make a difference in restoring the Eastern oyster populations of the Carolina coasts. Or, perhaps you see yourself as a medical doctor? Would you think of UNCW as one of the best places to prepare yourself for the health professions? We are! We provide applied learning experiences such as internships, research, shadowing and participation in service and outreach for students who aspire to careers in the health professions.

This issue explores the rising demand in psychology-related occupations—expected to grow by 15 percent between now and 2016. In UNCW's Department of Psychology, our students learn by engaging in investigative inquiry that loops discovery to practical application and back again. This process of re-informing basic research from the results of its applications is known as translational research, and UNC Wilmington is a leader in the method. Here, undergraduate and graduate psychology students participate by working with our faculty as junior colleagues on a wide range of research projects and publications.

We hope you enjoy looking in on a few of the places where our students and faculty find real-world applications for their learning and discovery.

Best regards,

David Cordle, Dean
College of Arts and Sciences

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On the cover:
Celebrating a Place to Write:
In 2007, *The Atlantic Monthly* named the MFA Program in creative writing one of the top "Five Innovative/Unique Programs" in the country, and in 2008, the Association of Writers and Writing Programs said: "Although UNCW's MFA program in creative writing is a young upstart . . . we know of no other program that has achieved so much, so well, so quickly. . . . If UNCW continues to build upon this well-designed and well-managed program, it could compete with the very best creative writing programs, including the oldest and most prestigious programs in North America."

UNC Wilmington is committed to and will provide equality of educational and employment opportunity. Questions regarding program access may be directed to the Compliance Officer, UNCW Chancellor's Office, (910) 962-3000, fax (910) 962-3483.

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In this issue of **Arts & Sciences** we explore some amazing places. We visit the Department of Music, a place where Jazz Speaks with authority! We also drop in on one of our busiest departments, psychology. Here, we find students working with faculty as junior colleagues translating research into applications and the result of applications back to research to advance knowledge and inquiry.

Our cover story tells the story of a very special place—Kenan Hall where UNCW's literary community of publishing faculty and aspiring authors, poets and essayists depict the human experience in beautifully written passages of meaning and connection.

Finally, in the Last Word we offer a story emblematic of UNCW and our dedication to students—the prominence we give to advising.

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on the cover

Learn how the **Department of Creative Writing** created a literary community that attracts the brightest students and most accomplished publishing faculty.



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Jazz Speaks: Percussionist Joe Chambers is as passionate about teaching as he is about performing.



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Once abundant,
now threatened:
Can we bring back
the **Eastern oyster**?



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Professor Tim Ballard exemplifies a hallmark of UNCW: individual advising.



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JAZZ

SPEAKS

BY KIM PROUKOU '06M

“...students need
a cosmopolitan,
well-rounded
musical education.
One that interfaces
with classical forms
and completes the jazz
education for students.”

—JOE CHAMBERS

YAMAHA

The inaugural performance of Jazz Speaks premiered Oct. 15 at UNCW's Beckwith Recital Hall with Thomas S. Kenan Distinguished Professor of Jazz Joe Chambers and some very special friends: Grammy nominee and outstanding Latin jazz drummer Steve Berrios; bassist Steve Haines, director of the Miles Davis Jazz Studies Program at the University of North Carolina Greensboro; jazz pianist, composer, arranger and author Ed Paolantonio; and UNCW's own Frank Bongiorno, jazz saxophonist, professor of music and founding chair of the department.

Chambers (drums and percussion) combines intensity with such thoughtfulness that each segment of his play demonstrates artful purpose to the whole, emitted seamlessly. His background in piano is evident in his technique on the vibes—as if he hears the piano tone and strikes the mallet in such a way as to reproduce its lyrical sound through the vibe. His improvisation on the drums also opens out tunefully, framing the melody.

In Set II, Chambers and Bongiorno teamed up to showcase the Little Big Band, made up of department faculty and UNCW Saxtet students. The combination of Chambers' lead and Bongiorno's conducting propelled students to play better and better as the performance matured until, at the end, lines between apprentices and professionals dissolved—suggesting that the combination of Chambers and Bongiorno will put UNCW on an ascending course to eminence in both jazz music education and performance.

Chambers was extraordinary, demonstrating the full range of talent he brings to UNCW as a performer, jazz scholar, composer and teacher.

UNCW Jazz and Classical Music: a Duet of Elegance and Pluck

Chambers joins a faculty led by Cathy Albergo, new chair of the music department. A nationally recognized authority on piano instruction, frequent lecturer, adjudicator and workshop clinician, Albergo's expansive understanding of method is rooted in her passion for music, which is both ambitious and contagious.

Together, Albergo and Chambers share a synergistic teaching philosophy.

The Kenan Distinguished Professor of Jazz is the first endowed professorship in the Department of Music.

"Classical music and jazz have much to offer each other," Albergo says. "Jazz helps classical musicians become more familiar with those jazz skills, like improvisation and the development of 'ear'."

Classical exercise is important to Chambers, who says, "students need a cosmopolitan, well-rounded musical education. One that interfaces with classical forms and completes the jazz education for students."

To strengthen composing skills, Chambers' students distribute original scores to their ensemble members for sight-reading and ear training.

"If students want to compete in New York, L.A. and Chicago, they should have the skills to play in a Broadway show, play for TV, play for dance and write and play for commercials," Chambers says. "They should be able to read and interpret European classical scores and combine that work with jazz performance."

"To be prepared for real-world jobs, students can't be narrowly focused," Albergo says. "Improvisation is the capstone of musical training. There is a direct link to improvisation, so important in jazz, in the classical tradition, too. Classically trained musicians need those jazz skills, and jazzers need to understand classical structure—the crossover is important to the training of all types of musicians for all styles of musical performance."

Rooted in a strong intellectual curiosity, Chambers' love of music extends to music history and music's ability to raise the standard and quality of human life.

"Music rises out of culture and experience, it's rooted in social studies, the expression of history, anthropology," he says.

To this end, Chambers and Albergo are strengthening collaborative exchanges with complementary disciplines such as literature, art, history, philosophy and religion and cultural studies. They also view outreach and continued community partnerships, the relationship between musicians and their audiences, as vital to advancing the quality of life in southeastern North Carolina and beyond.

**Ryan Saranich '10, with fellow
Saxtet students and UNCW jazz
faculty, joins Chambers and
friends for Set II of Jazz Speaks.**



UNCW/JAMIE MONCRIEF

“
**Students
 Say”**



Art Dealer

BY AMANDA FRASCA '09

In the sub-field of memory and neuroscience, brain fitness training alone or with physical exercise programs is demonstrating the ability to successfully slow or reverse age-related cognitive decline.

Your mission: Attend a series of private art shows and collect masterpieces by 20 of the world's greatest artists including Vermeer, Monet, Rembrandt and van Gogh to create a renowned art gallery.

The problem: You have no money and the private sales you're attending would just as soon sell you a master-fake as a masterpiece.

The science: Wait, what science?

Jeffrey Toth and Karen Daniels, two professors in the Department of Psychology at the University of North Carolina Wilmington, have developed a science-based computer game, Art Dealer, with the intention of slowing the process of memory and attention loss. But, it is such fun; can this be hard science?

Research has shown that our cognitive abilities, specifically memory and attention, begin to decline as early as our 30s, often diminishing further through our 50s and 60s. However, research has also proven that this decline can be slowed, if not reversed, if we exercise our minds.

Toth says, “You can actively change the course of your cognitive health” the same way you exercise your body at the gym. “Think about your brain like a muscle,” he says. “If you exercise it, you can stay mentally active and healthy.”

For most people, being shown a list of words and asked to recall them is not fun. “It’s a repetitive task that reminds them of their problem,” Toth says. “The key is to make brain exercise fun and enjoyable.”

Toth and Daniels were very selective in choosing the proper type of stimulus to incorporate in their computer game.

“Art is compelling subject matter for most older adults, very rich and intrinsically interesting. As we age, we may lose the ‘art’ in our lives in losing the memories we have collected and created throughout our life,” Daniels says.

To keep those treasured memories of an artful life alive, Toth and Daniels created Art Dealer and other games.



Jeffery Toth and Karen Daniels

UNCW/JAMIE MONCRIEF

Art Dealer relies on the dual-process theory that memory performance relies on two different types of neuropsychological processes: an automatic, implicit response usually supported by familiarity and a more conscious, controlled recall process.

The challenges that Art Dealer presents are designed to encourage purposeful recollection and override familiar, automatic recall. By repeating paintings during a “sale” those paintings become familiar, but Art Dealer also requires knowledge of whether or not the painting is an original and worthy of purchase.

“The player,” Toth says, “must remember inside information about the painting, i.e. original or copy, masterpiece or masterfake.” By targeting effortful recall and not relying on familiar knowledge, the game “keeps players right at the edge of their recollective abilities.”

The success and popularity of Art Dealer has been growing. It has been reviewed in *Gear Diary* and is available online at Marbles: The Brain Store, vibrantBrains and Minds Refined, Toth’s and Daniels’ game Web site.

Toth and Daniels acknowledge that Art Dealer could not be a success without the UNCW psychology undergraduate students who worked on testing and assessment.

“It’s important to remember that these are science-based games. It takes a team to investigate a scientific research question; therefore, it also takes a team to work on developing effective science-based games,” Daniels says. At UNCW that team includes students.



Amanda Frasca will graduate in May 2009 with a B.A. in communication studies and minor in psychology. The Garner, N.C., native is an active campus and community leader. To prepare for a career in public relations, Frasca has served as coordinator for numerous events, including the 2008 Rock for the Cure fundraiser, which raised more than \$2,500 to combat breast cancer.

New Ways to Serve

Stay Green and Stay on Campus

for Graduate School

BY AUTUMN BEAM '10 AND EMILY JONES '09

Amber Heaton traded her gas-guzzling Thunderbird for a fuel-efficient Toyota Yaris. Tiffany Strickland joined the Dogwood Initiative to protest unsustainable commercial growth. Laura Johnston participated in the commuter challenge pledge to get to school without her car.

In October 2008, Chancellor Rosemary DePaolo cut the ribbon for ECOTeal, an environmentally friendly retail store in the Fisher University Union that offers a convenient place to purchase transportation-related items and sustainable products. When she did, she showed the public that UNCW's campus is committed to going green.

The drawback to going green?

“Generally, going green is not cheap,” says Jack Hall, UNCW environmental studies department chair.

But over time, savings can be real.



“If I buy that water bottle now,” says UNCW junior Jennifer Hutton, pointing to the rack of \$5 BPA-free water bottles in ECOTeal, “I can stop paying for a bottle of water each day at the store. A little bit of money spent now can actually save me a lot in the long run.”

Get Involved

Hall prods students, staff and fellow faculty who care about the environment to “prove it, do something,” he says. “I know we are busy with classes, work etc., but I think almost anyone can find an hour or two per week to get involved.”

STUDENTS SAY: GO GREEN

Professor Jeffery Hill, environmental studies (EVS) graduate program coordinator, and **Jack Hall**, chair of the EVS department observe graduate students **Velu Ochoa Riaño** and **Steve Dellies**. Dellies is the storm-water manager for the town of Wrightsville Beach. His master's degree will prepare him to better manage local water resources and provide best practices for watershed protection—from bank preservation to habitat creation.

Riaño came to the United States from Bogotá, Colombia to combine a world-class graduate education with experience in another culture. "This program was my first choice. After I graduate, I want to return to my country to advance conservation and environmental protection programs or perhaps to work for an international organization like the World Resource Institute."



UNCW/JAMIE MONCRIEF

The UNCW Sustainability Committee is always looking for students who want a forum to voice their opinion to school administrators. Students who want to raise awareness and show they care about the environment can take the sustainability pledge online and participate in various sustainability events on campus.

"Even if you are about to leave UNCW," says student body president Brian DesRoches, "there are still opportunities to make a difference."

There is also the option of *not* leaving.

UNCW students were strongly represented in the application pool for the first cohort for the new Master of Arts in Environmental Studies program for both fall '08 and spring '09. Current indications are that UNCW grads will be represented in the pool of candidates for fall '09 as well.

The new graduate program is designed to strengthen the participants' knowledge of the environment and prepare them to become effective environmental leaders. Applicants have included environmental scientists, park rangers and other professionals as well as recent undergraduates.

The multidisciplinary nature of the program gives students the scientific background necessary for sound environmental decision-making as well as a foundation in the educational, political, sociological, economic and legal issues that frame environmental work and study. Coursework is integrated with actual practice in the field.

"Everyone in the department is very excited about the program," says professor Jeff Hill, graduate program coordinator. "The first cohort of students we've gotten this fall has been fantastic."

Autumn Beam is a junior at UNCW and an honors scholar. Beam will graduate in May 2010 with a B.A. in English and minors in women's studies and journalism. She is an intern in the Collaboration for Assault

Response and Education (CARE) office, a campus-wide effort to promote safety and non-violent behavior. She also works as a student photographer for UNCW Marketing and Communications, is a reservations specialist for Campus Life and photography editor for *The Seahawk*, UNCW's student newspaper. After graduation, Beam plans to attend graduate school and to write and take photographs for magazines. She is from Pemberville, Ohio.

Emily Jones is a senior communication studies major who graduates in May 2009 and has applied to the graduate program in environmental studies. An avid surfer, she is a public relations assistant at the North Carolina Aquarium at Fort Fisher and public relations chair for UNCW Surfrider.



Jones



Beam

Celebrating a Place to Write

BY KIM PROUKOU '06M AND LINDSAY KEY '11MFA
ILLUSTRATIONS BY ELLIS FURST

Writers understand the essential importance of place: before a character or an experience can be shared it must be grounded in a context—interior or exterior—of heart or mind. There must be a *place* for point of view.

Founded in 1999, UNCW's Department of Creative Writing claimed a place of its own in December 2007 when faculty, students and staff moved to a newly renovated Kenan Hall. For the first time, offices, classrooms, MFA student workspaces, venues for public readings and The Publishing Laboratory were brought together under one roof—the final step on a journey of independence and definition that has shaped and distinguished the department.

"We are a community of writers, and Kenan Hall is our home. We take care of it," says Philip Gerard, department chair and founder of the Master of Fine Arts (MFA) program. Indeed, there is spirit of community in this place raised from the shell of the original Kenan Hall built in 1967, one year before Wilmington College officially became a campus of the University of North Carolina.

Renovations were completed in November of 2007. The original Georgian architecture has been restored and refreshed. Clusters of students



now gather in the open spaces and recesses of a building that flows out and up from a spacious central gallery, freshly painted and hung with MFA student paintings. Light streams in through high windows. A generous round table surrounded by large sculpted leatherette chairs invites collaboration. Students settle here easily—moving in and out to gather on the open front porch or the courtyard and garden at the rear.

They and the faculty who serve them have come here to write, and they're serious about it. Their purpose is supported by sincere

friendship and a common point of pride: Here, in this place, faculty and students took a raw program from start-up to up-start national prominence—in less than 10 years.

CORE VALUES

"We are practicing literary artists: our authority to teach arises directly from the discoveries we make in our own writing, daily and over a lifetime."

...core value from "Statement of Values and Practices for the Department of Creative Writing"

Early leaders like Gerard and biographer Philip Furia, former chair of the Department of English, with a small

founding faculty, led the movement to form an independent department of creative writing. They envisioned a place where talented aspiring writers would be affirmed as full members of a literary community led by authors, writers, editors and publishers committed to teaching. It was a vision that grew to include a community that would define itself by openness to exceptional literary voices of diverse experience and then again to reimagine a literature of place for these voices.

With talent and tenacity, Gerard, Furia and the founding faculty of writers attracted other pioneers. Prominent among them was poet Mark Cox.

Far-sighted administrators supported them: former dean of the College of Arts and Sciences Jo Ann Seiple, Chancellor Emeritus James Leutze and Chancellor Rosemary DePaolo. This alliance—between a committed administration and a core faculty of teaching, practicing literary artists—became and remains the mainspring for literary achievement at UNCW.



Cox

A PLACE FOR CREATIVE NONFICTION

In 1999, a new independent creative writing department hired its founding chair, Mark Cox. Cox brought with him a firm conviction that a “vibrant creative non-fiction track was key for us at UNCW,” a conviction fully shared by Gerard and Furia. The decision to give track status to creative nonfiction confirmed the advantages to independence.

The wisdom of a faculty of publishing literary artists with working knowledge of the emerging programs in their field permitted UNCW to establish a place for creative nonfiction long before many more-traditional programs realized its value. UNCW rapidly emerged as a national leader in the genre.

Although officially named “creative nonfiction” by the National Endowment of the Arts in 1983, it was Truman Capote’s *In Cold Blood*, published in 1966, that is the genre’s earliest most-recognized example. As a writer, Gerard embraced the new form early in its development. His work demonstrates masterful use of the cinematic techniques that distinguish creative nonfiction, a cinematic eye that zooms in and out of action, poetic ear and rhythmical construction of sentences: a style that holds the reader in its grasp by revealing the true drama of a real event.

Gerard also appreciates the genre for its accessibility. “Creative nonfiction is the great meeting ground for both poets and fiction writers,” he says. “Some writers naturally gravitate toward fact-based writing, poets will eventually write essays about poetry, and fiction writers often



Gerard

write for magazines. And everybody writes memoirs. The genre offers the novice writer lots of opportunities to publish for a wide audience and actually has a longer literary history than fiction.”

“We value research as a creative act.”

...core value

Exhaustive research is essential to the ethic of creative nonfiction. The writing gains its power and authority from its connection to the factual world and its ability to relay intimate experience of actual events supported by a clear plan and strong structure.

Students must go out into the world and find out what is necessary to know in order to write knowledgeably and perceptively. They are initiated into the scope of these efforts in the introductory *Research for Writers* course.

POETRY:

PERSPECTIVE & STRUCTURE

An award-winning poet, Cox came to UNCW to structure the developing department and set the stage for the anticipated growth that administrators and faculty alike envisioned. Structure and form, grounded in purpose, defines Cox’s genre and

may have aided his foresight. Certainly, he forecasted provisions that accelerated the growth of the department saving the emerging unit both time and trial.

"Coming in from the outside, feeding on the nucleus of energy and expertise that was already here, I had some sense of distance that was both a great thing and a tremendous responsibility. We needed to be thinking and planning about developing processes, personnel, curriculum, all kinds of procedures in order to make sure that we were a viable and vibrant department 10, 15, 20 years down the line," Cox recalls. His talent for turning difficulties to advantages and seizing opportunities kept the young program steadily moving forward in the right direction.

LONG-RANGE VISION

With administration support, Cox was able to secure an off-campus retreat and residence for visiting writers at Wrightsville Beach—a decision that would distinguish the program, become a draw for eminent writers and a means to link the writing community to the coastal environment.

"Without that beach house we simply could not have brought the talent here then, when we were a struggling new program, or even today, if we were not able to provide that opportunity for retreat, reflection, community and creative collaboration in that setting," Cox says. "It is difficult to overestimate how inspiring it is to students to have nationally acclaimed writers live and work among them for an entire semester at a time."

Recent writers-in-residence have included Mark Doty, winner of the 2008 National Book Award for poetry.

POETRY: MEETING PLACES

"My poems are meeting places," poet Tomas Tranströmer, quoted by Malena Mörling.

Malena Mörling sits upright at the head of the conference room table in Kenan Hall. Her piercing gray-blue eyes flutter, lightly shut as if caught in a blissful dream. To her left, a creative writing graduate student reads aloud a poem written for the class.

"Thank you," Mörling says at its conclusion, slowly opening her eyes. "It's so beautiful...thank you."



Mörling

It is not uncommon for the well-known poet and assistant professor to show reverence and gratitude for her students' work.

"Teaching is a complementary and parallel art." ...a core value

"The greatest teachers I have had responded specifically to each student's writing, without being prescriptive," Mörling says. They were forceful and encouraging in their criticism. They were human and compassionate. When I think of them, I am reminded of Chekhov, who said 'art exists to prepare the soul for tenderness.'"

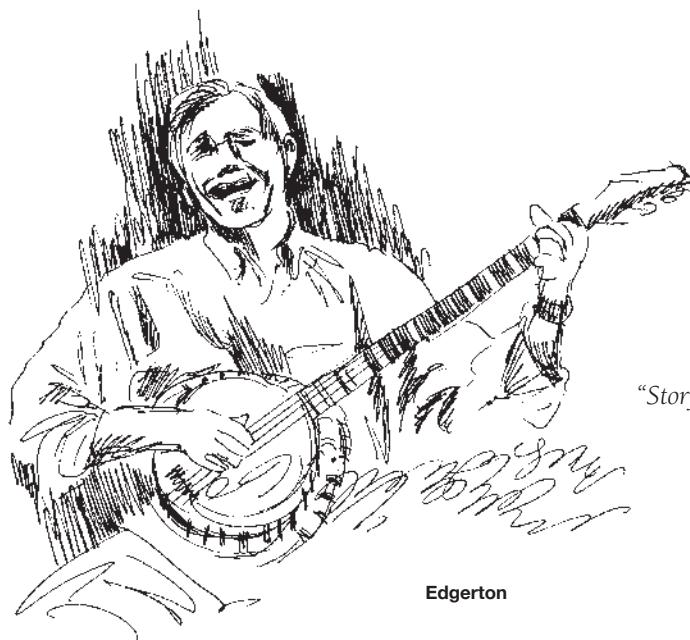
Mörling came to UNCW from Syracuse University to be part of what she calls "a big, thriving program." Several aspects of the creative writing program stood out for her: the large number of faculty teaching in each genre, the presence of The Publishing Laboratory and the ascendancy of the department.

Since coming to UNCW, Mörling has received the prestigious John Simon Guggenheim Fellowship and a MacDowell Fellowship and was the first writer to attend the School for Advanced Research on the Human Experience, a yearlong project with archaeologists and anthropologists in Santa Fe, N.M. She is a recipient of a Lotos Club Foundation Prize, the Rona Jaffe Foundation Writers Award and an Academy of American Poets Prize, highly competitive awards.

Mörling's love of beauty and art is the foundation of her teaching and of who she is. Her love for poetry is expressed by joy and appreciation and a recovery of the childhood aesthetics of disinterested delight.

She says that she does not think "telling students facts necessarily reaches anybody," but "as teachers, we can provide varieties of thought and let the students try them on as filters, like eyeglasses."

Mörling is the author of two books of poetry, *Ocean Avenue* (1998), winner of the New Issues Press Poetry Prize and *Astoria* (2006), published by Pittsburgh Press. Her translation of Tomas Tranströmer's poems, *For the Living and the Dead* was published in 1995.



“Story can be the most powerful way to reach people.”

Karen Bender, instructor of fiction

Edgerton

FICTION: IMAGINATIVE PLACES

“A work of poetry, fiction or creative nonfiction completes itself in the imagination of the reader.” ...core value

“What makes our fiction writing classes unique on both the undergraduate and graduate levels,” says associate professor Robert Siegel, MFA coordinator of the creative writing program, “is the quality of our students and the creativity of our faculty. We go way beyond the traditional workshop structure, utilizing everything from camping trips to staged readings in order to help our students think about fiction in new ways.”

“On the undergraduate level, the thing I stress is the tie between reading and writing. Undergraduates need to understand that reading is the most important way that writers learn to write. On the graduate level, the students already know this—they’re great readers. What they need is help stepping back from their work so they can look at it more critically.”

“Fiction is powerful because it places the reader inside the consciousness of an individual,” Siegel says. “That gives an emotional intensity to situation and events that other forms of communication—such as journalism, for example, might not always attain.”

This emotive energy creates an imaginative affinity that bonds readers to the story, permitting them to enter the experience without having to live it. There is no substitute for the opportunity.

“Good fiction is always driven by emotion,” Siegel says. “So as a writing teacher, my primary goal is to help students clarify and strengthen the emotional forces in their work.”

REGIONAL FICTION: WHERE PLACE IS ESSENTIAL

Thumb through North Carolina native Clyde Edgerton’s latest book, *The Bible Salesman*, and you’re bound to see remnants of the South in its setting, dialogue and symbolic barns and churches. But unlike some writers, this creative writing

professor doesn’t consider “regional writing” insulting. According to Edgerton, it’s the sort of writing penned by literary greats William Shakespeare, Flannery O’Connor and Mark Twain—writers who didn’t depend on a region to create stories, but whose great stories were told in a specific geographical region.

Of Edgerton’s nine novels, all but one are set in the South, and many explore what Edgerton considers a regional theme: the tension between what was and what is. But Edgerton doesn’t rely on references to stereotypical southern topics—church going, hot weather or farming—to tell his stories. Rather, he focuses on human relationships.

“Some people depend on a region to be cutesy, quirky and sentimental, and this kind of writing eventually falls flat,” Edgerton says. “In my view, when we examine how stories deal with hope and fear, we can then begin to determine if they are literature that might last for a while.”

THE PUBLISHING LABORATORY: AN ENTERPRISING PLACE

"We believe in the book as an essential endeavor." ...core value

Central to writing is publishing—reaching an audience of readers. The Publishing Laboratory at UNCW has grown tremendously since Stanley Colbert, visiting professor and former CEO of HarperCollins Canada, established it in 2000. His successor Barbara Brannon left an indelible mark by emphasizing the love of books and their appreciation as an art form.

Current director Emily Smith '06MFA is building on this legacy by advancing in-house publishing capabilities. A new partnership with regional publishing house John F.

Blair is enabling The Publishing Laboratory at UNCW to reach a wider readership. This year, Smith, students and staff produced three new books, including a 50th anniversary edi-

tion of *The Hatterasman*, Ben Dixon MacNeill's memoir of the Outer Banks and winner of the 1958 Mayflower Award. The book includes 29 line drawings by the first chair of UNCW's art department, Claude Howell.

The Publishing Laboratory is the only one of its kind in the country, serving as both a classroom and a fully functioning micropress where students learn hands-on how "books are made, start to finish," Smith says. From the time that a

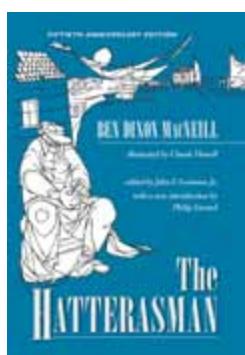
manuscript is accepted for publication, the piece is thoroughly edited, typeset, designed and produced by student editors and designers using professional binding equipment in the second-floor studio in Kenan Hall under the direction of Smith and Ben George, editor of *Ecotone*, UNC Wilmington's literary journal.

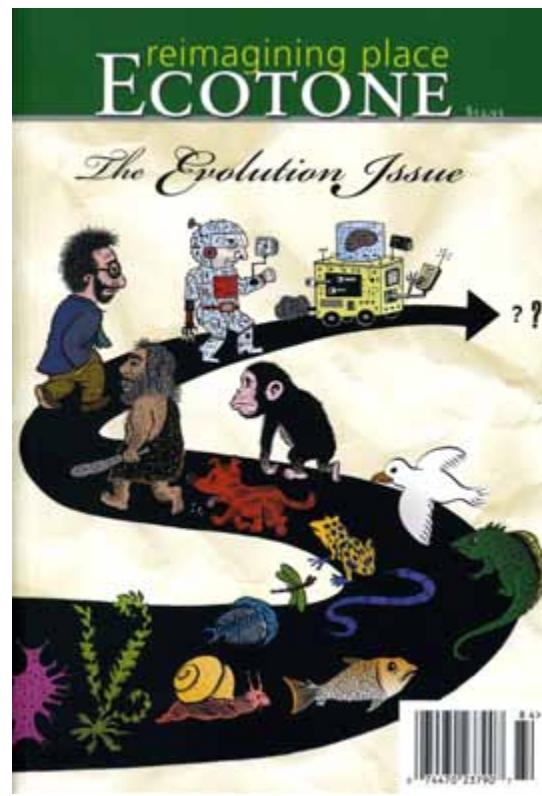
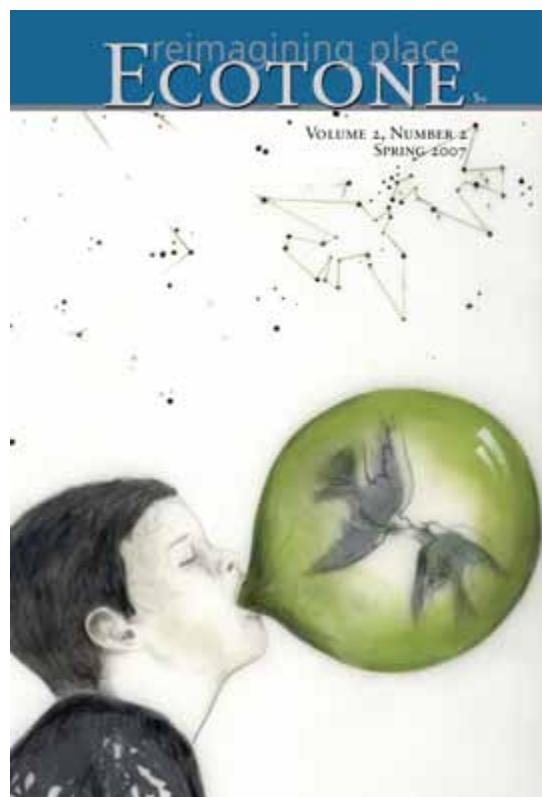
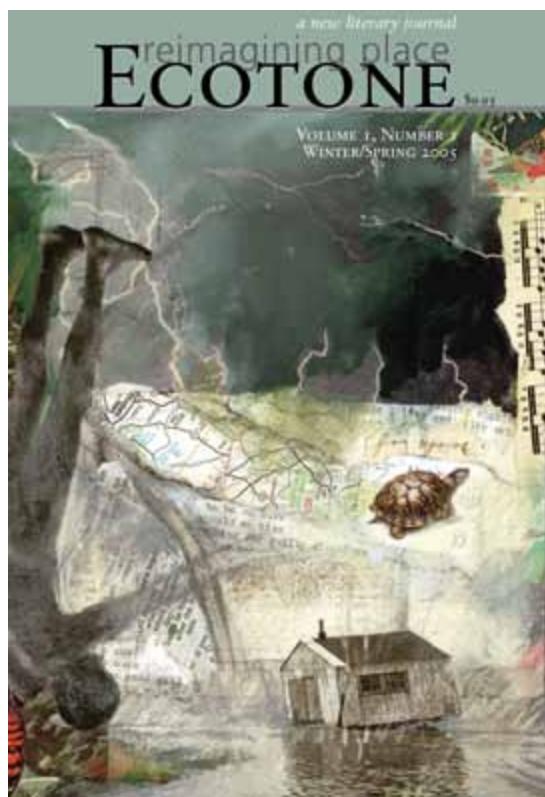
Recently, The Publishing Laboratory announced creation of a new literary book imprint that will strengthen the current focus on place-based writing and the themes of transition as defined by its sister publication, *Ecotone*.

"The new book imprint is being planned to coincide with the publication of our first title in 2010," Smith says. The imprint will further The Publishing Laboratory's recognition as a small press. All books will be marketed nationally and sold in stores like Barnes & Noble and on Amazon.com.

FOR STUDENTS: PRACTICUM AND CERTIFICATE OFFER REAL WORLD EXPERIENCE

"Graduate students in the MFA program are writing with the aim of commercial publication," Smith said. The publishing practicum that she and George teach in The Publishing Laboratory offers MFA students a valuable applied learning experience in the literary process—discovering how manuscripts are edited, shaped and designed into books for publication and distributed to wide audiences. BFA students may take courses leading to a Certificate in Publishing, a marketable credential for undergraduates who complete a suite of four publishing courses.





Four years and seven issues after its premier in 2005, *Ecotone* has become a nationally recognized literary journal. In his introduction to *Best American Short Stories 2008*, Salman Rushdie named *Ecotone* one of 10 literary journals on which “the health of the American short story depends.”

ECOTONE: A PLACE OF DISCOVERY

The department, as a community, publishes *Ecotone*, a semi-annual national literary magazine that has been likened to the *Georgia Review* and *Princeton Art Review*.

An ecotone is a place where two or more ecological areas form a transitional area—sea-bays, variable landscapes, forest-meadows, marine-coastal and marshlands are examples. Ecotones are areas of diverse edge-species of plants and animals, where possibilities emerge “along lines of difference,” (A.R. Ammons)—where expectations meet in unscripted exchanges with surprise. *Ecotone* explores these and other edges of meaning in the ecospace of 21st century America.

Four years and seven issues after its premier in 2005, *Ecotone* has become a nationally recognized literary journal. Many of the submissions by national as well as international writers to *Ecotone* have been reprinted in other publications such as *New Stories from the South* and *Best American Writing*, the American anthology series of best writing across genres. In his introduction to *Best American Short Stories 2008*, Salman Rushdie named *Ecotone* one of 10 literary journals on which “the health of the American short story depends.”

Ecotone was founded and is directed by assistant professor David Gessner. “We started out winning notice and awards from our introduction at the first meeting of the Association of Writers & Writing Programs; I think, in part, because we didn’t just put out a general journal but something specifically about place and the environment.”

Ecotone is an extraordinary learning experience for both undergraduate and graduate students, who may apply for positions on the editorial management team overseen by three faculty mentors. Student editors work with Gessner, editor-in-chief, editor Ben George, formerly of *TinHouse* magazine, and student managing editor Adam Petry.

Ecotone is produced in conjunction with The Publishing Laboratory. Director Emily Smith oversees design and also instructs aspiring student authors and MFA and BFA student editors.

The first double issue of *Ecotone* was released in January 2009 to celebrate the 200th anniversary of Charles Darwin’s birth and the 150th anniversary of the publication of his major work, *On the Origin of Species*.

A PLACE TO REACH OUT

Departmental faculty also mentor students in the process of discovering readership and supporting other potential writers through stellar outreach programs such as Writers-in-Action, the Young Writers Summer Camp and the Bald Head Island Writers Retreat. Workshops sponsored by the outreach efforts of the Osher Lifelong Learning Center also expand opportunities for faculty members and for MFA students to teach writing in non-traditional settings and reach regional writers who normally would not have access to a university.

A VERY SPECIAL PLACE TO WRITE

Here, at UNCW, talented rising writers are mentored in the art of imaginative literature from an established prose and poetry faculty whose dedication to their craft is surpassed only by their devotion to their students.

Since its inaugural year, the BFA program has tripled in size. This fall, the department welcomed 182 majors and 92 minors to join 62 MFA students from the award-winning graduate program as full members of the community.

Although recipients of national and international recognition, UNCW creative writing faculty place teaching above all else—believing that “the ultimate measure of our worth is not a faculty’s published work, important as that may be, but the artistic, personal and academic evolution of each of the students in our charge. Our primary profession, in short, is to recruit, support and nurture the most promising writers and students of letters in the country.”*

At UNCW, creative writing is, indeed, a very special place.



* excerpt taken from the mission statement of the Department of Creative Writing at the University of North Carolina Wilmington.

From the University Out

The Transformative Potential of Partnerships with Nonprofits

BY ANDREA WEAVER

"The [nonprofit] sector enhances our creativity, enlivens our communities, nurtures individual responsibility, stirs life at the grassroots and reminds us that we were born free."

— John W. Gardner

In a region as richly historic as North Carolina's Cape Fear, the quilt that connects UNCW to the communities and people who live here is a patchwork—segments of pattern, pieces made whole by threads of commitment and concern that bind a society together.

In the strongest communities, the threads—business, education, government, arts, health care, human services and more—are knotted together for strength. In the Cape Fear region, Quality Enhancement for Nonprofit Organizations (QENO) connects those seams. Three departments in the College of Arts and Sciences—public and international affairs; social work; and sociology and criminology—and the Division for Public Service and Continuing Studies, are building relationships with local governments, philanthropic foundations and nonprofits to improve services and raise awareness of the needs and solutions that nonprofit agencies provide.

Number and Total Revenue of 501c(3) Organizations in New Hanover, Brunswick, Pender, Onslow Counties: 2000-06

Major subsector (5)	Number 2000	Total Revenue 2000	Number 2006	Total Revenue 2006
Arts, culture, and humanities	37	11,516,107	44	12,618,016
Education	43	19,964,422	64	39,541,919
Health	34	44,451,633	44	89,259,053
Human services	93	54,576,337	116	78,838,586
Other	57	20,186,407	97	57,230,010
Total	264	150,694,906	365	277,487,584

SOURCE: NCCS Data Web, National Center for Charitable Statistics, <http://nccsdataweb.urban.org/> ©2008

The data on nonprofits reflect 501c(3) or charitable organizations that report to the IRS. The data do not include religious charities or regional affiliates of national organizations that file their tax returns through their parent organizations.

According to Stephen Demski, vice chancellor of public service, "Nonprofit organizations are critical to the well-being of our region. The issues they address, such as homelessness, hunger, violence prevention, arts preservation and youth enrichment, are needs often unfulfilled by other sectors of our society."

In addition to their altruistic goals, nonprofit organizations are important to the regional economy. Between 2000 and 2006, the number of nonprofits in Brunswick, New Hanover, Onslow and Pender counties grew by more than 100 agencies, and their total revenue increased from \$15 million to \$27.7 million.

The transformative potential inherent in the QENO vision—and in any university-community partnership—hinges on opportunities for faculty to convey knowledge and expertise, derived through teaching and research, to organizations within the region. According to QENO assessments, professional training experiences for volunteer boards and directors are a pressing need among Cape Fear organizations.

This is where UNCW is poised to affect the greatest changes. Through QENO, faculty members work directly with nonprofit managers and governmental leaders in courses and programs, such as the Master of Public Administration (MPA). Faculty research regional issues, using the information discovered to participate in public policy discussions. They establish and sustain community outreach activities, internships and other applied learning experiences, providing nonprofits with enthusiastic, motivated workers and volunteers, and giving students real opportunities to practice civic engagement.

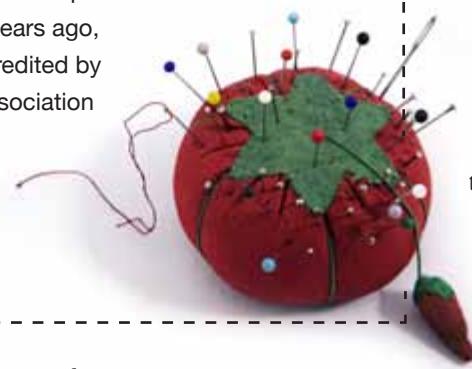
"QENO is a mutually beneficial partnership. UNCW has the competencies that are valuable to community organizations—faculty experts who are here, in part, because they want to interact with the region through scholarly engagement," Demski explained. "In return, the community organizations help the university with its academic mission by providing faculty with opportunities for research and professional development and students with learning experiences."

Like any quilt, the QENO partnership requires backing to keep the batting in place and prevent the stitches from unraveling. In fall 2008, Wilmington resident Betty Cameron and her children, in their capacity as directors of the Dan Cameron Family Foundation Inc., established the Cameron Family Distinguished Professorship of Innovation in the Nonprofit Sector to support and lead efforts to improve the effectiveness of the local nonprofit sector and increase philanthropy.

The Camerons have many ties to UNCW; Betty and her husband, the late Dan Cameron, served on several university boards. In 1983 the university named the school of business in honor of the Cameron family, and in 1988 the business school building was dedicated for Dan and Bruce Cameron.

"This generous gift will allow us to add a national expert to our faculty who will equip our graduate students and nonprofit managers and staff with the cutting-edge knowledge and skills to excel as models for the rest of the state and country," says Tom Barth, professor of public administration.

The late John W. Gardner was president of the Carnegie Corporation of New York and the Carnegie Foundation for the Advancement of Teaching, U.S. Secretary of Health, Education and Welfare, chairperson of the National Urban Coalition and founding chairman of Common Cause. In 1964, he received the Presidential Medal of Freedom, the nation's highest civilian honor.



Psychology: a Popular Study

BY KIM PROUKOU '06M

Psychology is a popular study. More students have a major or concentration in psychology than any other department on UNCW's campus.

The halls, classrooms, labs and offices of the Social and Behavioral Sciences Building or "S&B" are jammed—more than comfortably worn—and tired. A new building, designed to accommodate and anticipate the department's needs, is being planned in a new collaborative interdisciplinary neighborhood dedicated to research and application.

According to the most recently released Occupational Outlook Handbook by the Bureau of Labor and Statistics (2008-09), the need for psychology occupations will grow 15 percent between 2006 and 2016, faster than the average for all occupations. Bachelor degree holders may find employment as employment specialists, newspaper columnists and public relations specialists, program analysts, data analysts or as advocates in fields as diverse as career advising, purchasing and sales, business management and community support services.

However, to stay in the field of psychology, graduate or

post-graduate work is necessary. The greatest demand will be for doctoral degree holders and specialists with a master's degree.

UNCW offers two master's clinical tracks to prepare students as practicing psychologists and a pre-Ph.D. program that serves students who want a terminal degree but are unsure of the specialization they want. In this program, students continue to develop research skills and to advance in the field as they discern a direction for their specialty. A Ph.D. candidate in psychology must specialize.

A science, a profession and a means to improve the quality of life, psychology supports many subfields ranging from neuroscience, psychobiology and neuropsychology to clinical psychology and industrial-organizational psychology.

With a scope of interest nearly as wide as human experience itself, one common denominator frames the discipline: scientific rigor. Psychologists study behavior and its determinants—brain function, environment and experience; and use behavior to make inferences about cognitive processes.



UNCW/JAMIE MONCRIEF

In academic year 2007-08, departmental faculty published 30 articles in refereed journals; 15 students were co-authors on these publications. Sixty-six presentations were made at major international, national and regional conferences; 89 students were co-authors.



UNCW/JAMIE MONCRIEF

“Psychology is a natural science. Much of what we do could be seen as a sub-branch of biology. Much of psychology is also a social science and much of psychology is a profession,” says Mark Galizio, chair of the psychology department.

“The discipline is a brilliant integration of academic fields,” says Carol Pilgrim, associate dean of the College of Arts and Sciences and professor of psychology.

However, many students underestimate the rigor of the study.

A successful psychology major must possess high levels of skill in all the foundational competencies: writing, oral communication, numeric fluency and most especially critical thinking, the ability to analyze and synthesize information for effective translation and communication—all skills that employers want.

Translational Research: a Two-way Street

To improve health, scientific discoveries are translated into beneficial applications, but this is hardly a one-way street. Just as often, clinical observations and results become the basis for further investigation and new discoveries.

This networked approach is called translational research. The concept prioritizes innovation, multi-disciplinary and interdisciplinary research and the use of information technologies to translate new knowledge into improved therapies and the reverse—informing

research directions with the results of application.

In the labs of UNCW’s psych department, “it is incumbent on the scientists to spell out where they see their work going and to give us examples of where and how it might be applied,” Galizio says.

The National Institutes of Health (NIH) criteria for the evaluation of research grant applications favors the translational approach. UNCW’s psychology faculty is fully vested in the theory and method—evidenced by the department’s record of acquired NIH-sponsored funding and the acceptance rate of its students into quality Ph.D. programs and nationally recognized laboratory research programs.

Applied learning is imbedded in the very nature of the design of translational method. “We believe that direct involvement with psychological research is one of the most critical applied learning experiences that we can provide our students,” says Galizio.

At UNCW, undergraduate as well as graduate students work directly as junior colleagues with faculty in research labs collecting data and observing behavior to test theories for a wide range of projects—developing competence in translational research skills as full members of the department’s investigative community. Because of their hands-on experience with translational research methods, UNCW students are highly competitive for top-level graduate programs and for employment opportunities.

Symbols: Behavior Analysis and Learning

Symbols are powerful.

They can engender great acts of patriotism, strong feelings of anger and strong emotional effects. Professor Carol Pilgrim investigates basic principles of the learning process in carefully controlled studies that use the power of symbols.

"We ask what are the basic learning processes that are responsible for symbolic function," Pilgrim says. "If we can gain understanding of that process from our studies with young children who can understand symbolic representation, then we may be able to use the information to assist the many children and adults whose symbol use and symbol representation evidence delay—like kids with autism and/or other developmental disabilities, who do not acquire symbol use as easily."

By understanding how the process of symbol interpretation works in those who use it well, researchers like Pilgrim and her students are better able to design procedures to help bring about this important step in the learning process where it is not developing on its own. "That's the translational piece," Pilgrim says, "that will allow us to structure our teaching in the most appropriate and effective way."

One of the sites where Pilgrim and her students collect their data is a preschool in Wilmington. In one case, math symbols are used with synchronized reinforcement of audible spoken values with visual reinforcement of written and numeric values in a computer matching game created by Pilgrim.

The ability of the computer to engage the "player" with the stimuli and to deliver instant reinforcement through sight and sound encourages the "player" to keep playing (and learning). The privacy of the computer gives the child (or adult) a sense of freedom and control that may also account for demonstrated success in not only supporting the attention span but also increasing student confidence.

The end result is clear: learning is faster, more consistent and retention is demonstrably improved with practice at these "games" for both developmentally advanced symbol users and developmentally delayed symbol users.



PHOTOS: UNCW/JAMIE MONCRIEF

Graduate student Rachel Kolb works with a preschool student on a symbolic representation exercise to demonstrate how "2" and "••" are both "two." Learning processes demonstrated by this research will support better teaching programs for all children—including those with learning/developmental disabilities.

Motivated to Change

"Am I motivated by what I really want out of life..." —Earl Nightingdale

There is a new treatment for destructive addictive behaviors—and it's habit forming.



"You would think that time spent in the dehumanizing privations of prison would dissuade people from re-offending. You would think that hangovers, an auto crash, memory blackouts and damaged relationships would be enough to convince a woman to stop drinking. You would think—yet, so often, it is not enough," says Rich Ogle, associate professor of psychology and clinical training coordinator, whose research interests are substance abuse and addictions, aggression and violent behaviors.

Motivational interviewing (MI) is a new method of guided therapy that is offering measurable success at the difficult task of sustaining personal growth and change.

Recognizing that the only change that lasts is change initiated and empowered from within—by clients in their own self-interest—client and therapist work together to identify the empowering core values that each client already holds. Ogle is a leading authority and expert in the use of the method.

The new high is empowerment; the new habit—self-determination.





"You listened to me. You asked me questions. You wanted to hear how I saw things." —client testimony

Motivational Interviewing solutions are self-directed and self-discovered—arising from within the set of values and beliefs the client holds most dear. It is only from this vantage point that clients can overcome resistance to change. Determination begins when clients can claim what it is they really want and resolve their ambivalences toward the cost of accomplishing it.



MI works because it does two things: it elicits the values that are important and motivational from the client's viewpoint without judgment as to whether or not these values are right or wrong.

As clients feel free to express their values, contradictions become apparent. Some values work against other values. This creates ambivalence—a sure roadblock on the path to change.

For example, a client may value the camaraderie among friends whose lifestyles and interests encourage behaviors contrary to more closely held values such as family or the status and privileges of full-time work.

This creates a repetitive turning over and over of the merits, gains and losses indicated by change, an ambivalent activity that stops most people from making clear choices.

MI helps clients identify their vital motivational values that preclude other choices.

"We work together to ease the ambivalence and to identify the contradictory behaviors that will not support or advance self-identified core needs and values," Ogle says. "We are taking them where they are at and using their own values to move them forward. We start with little glimpses and insights into the need for change and end in long-term maintained change."

The method is generating excitement not only among clinical psychologists and social workers, but most importantly, among clients and their families. In many cases, MI functions well as a stand-alone treatment.

"Motivational Interviewing is one of a small number of evidence-based treatments that can deliver these kinds of results, even with people with serious substance-use disorders, who have other significant psychological disorders," Ogle says.

Accepted as a best-practice procedure in North Carolina, MI is the first treatment, either medical or counseling-based, demonstrated to be as effective with people with severe addictive behaviors and/or dependency and/or compulsive behaviors as it is with milder expressions of these behaviors. The state has created initiatives for state-supported agencies to be trained in the method as well as incentives to implement its practice.

"By identifying core values of the client that outweigh choices and results that do not support their own, self-identified core needs and values, clients begin—perhaps for the first time in their lives—to make their own arguments for change," Ogle says.

Rich Ogle studied motivational interviewing as a doctoral student at the University of New Mexico under William Miller, the original developer of the technique. Ogle is the clinical coordinator of the department's substance abuse treatment program at UNCW and trains graduate students in Motivation Interviewing. Supported by initiatives implemented through the Governor's Institute on Alcohol and Substance Abuse, Ogle conducts workshops and training programs for counselors and mental health practitioners throughout the state of North Carolina.

Bringing Back the Eastern Oyster

BY KIM PROUKOU '06M

“ Abraham Midgett had gone down to Pamlico Sound to get some oysters for the station crew's supper. The oysters, about ten bushels of them, were dumped into two enormous coffee sacks and thence into the cart, and the total weight of the catch was above six hundred pounds...”

from *The Hattersman*, by Ben Dixon MacNeill



Amerigo Vespucci, 16th century explorer, and John Smith, 17th century adventurer, both wrote of the abundance of native Eastern oysters as a natural wonder of the American Southeast coastal region. Today, disease, overfishing and environmental concerns threaten the species.

Under ideal conditions, the adult oyster can cleanse 30 to 60 gallons of water per day of sediment and bacteria from the shallow, brackish and salty waters where they thrive. Their beds form extensive reefs that provide critical habitat for many fish, shrimps and crabs and serve to reduce erosion of shoreline areas. But, diseases introduced from other areas, overfishing of strong and mature stocks and a decline in water quality have all combined to reduce oyster numbers and make the oyster dangerously more susceptible to disease.

Once it was thought that building new oyster beds, along with repopulation and maintenance of current beds, would be enough to return the oyster to historic levels. This was the original focus of the early Chesapeake Bay oyster restoration project. But because of continued environmental problems, insufficient larvae and impact from diseases, this method alone has not proved sufficient. The focus has shifted to increasing



Oyster restoration is one activity within UNCW's biology and marine biology focus on the ecology and restoration of salt marshes, oyster reefs and coral reefs. Above: Martin Posey, professor and chair of the Department of Biology and Marine Biology, research associate Troy Alphin and graduate student Anne Markwith evaluate oyster bed restoration efforts at the Hewlett Creek research site.

PHOTOS: UNCW/JAMIE MONCRIEF



the bivalve's resistance to new parasites and diseases. Researchers with UNC Wilmington's Department of Biology and Marine Biology have been ahead of the curve on oyster restoration for more than a decade, attacking the problem on both fronts.

In the field, Martin Posey, department chair, and research associate Troy Alphin investigate the best approaches for placing shell, the foundation of all oyster beds. Their research seeks to understand habitat requirements as well as identify best restoration practices, such as the establishment of oyster sanctuaries.

In the laboratory, associate professor of biology Amy Wilbur's research on oyster DNA and oyster diseases will be key to raising more resistant oysters and to enhancing sanctuaries by protecting the beds from virulent strains of disease. Recently, Wilbur and her colleagues developed genetic markers that allow them to distinguish and detect diseases at very low infection levels—an exciting advancement.

UNCW researchers are applying a multi-faceted approach to restoring oyster populations in Southeastern North Carolina:

- Assess resistance to disease in different stocks
- Evaluate susceptibility to new diseases and/or the disposition to harbor or carry disease among various oyster populations
- Examine environmental factors affecting the prevalence and health of natural oyster populations
- Understand habitat requirements
- Recognize and develop best practices for oyster bed restoration
- Build sanctuaries

These efforts are funded by North Carolina Sea Grant, N.C. Marine Fisheries Commission, the U.S. Army Corps of Engineers and the National Marine Fisheries and Coastal Habitat divisions of the National Oceanic & Atmospheric Administration.

Mentoring for the Health Professions

BY WILLIAM DAVIS '00M

For 15 years, assistant chair of the biology and marine biology department and associate professor Tim Ballard has helped students achieve their dreams of becoming medical doctors, veterinarians, dentists, anesthesiologists and pharmacists. Each year, Ballard oversees between 200 and 225 students in UNCW's pre-health professions program. According to biology and marine biology department chair Martin Posey, Ballard's personal interest in each student "is invaluable to making the program work." His shepherding style is a mixture of encouragement, talent assessment and tough love. Ballard's attention nurtures both those capable of going on to the professions they desire as well as those who find they may be better suited for other positions in the healthcare field.

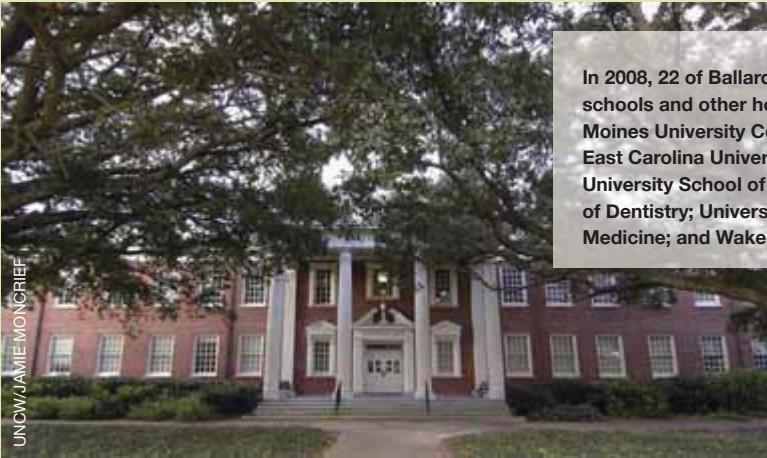
UNCW identifies incoming students interested in medical careers prior to freshman orientation. Then, at orientation, pre-health advisors, including Ballard, meet with each student. At the end of the freshman year, in addition to his own advisees, Ballard sees every serious pre-health professions student—meeting again with them at the end of their junior year, "when," Ballard says, "we talk about the impending qualifying exams (MCAT, DAT, etc.)" Ballard also personally writes the letter of recommendation for all students applying to medical school, dental school and other health professions schools.

Applying to health professions schools is an intense, competitive process. In addition to stellar grades, successful applicants must demonstrate evidence of research experience as well as community service. These applied learning opportunities are offered within the structure of advising in the disciplines of biology, biochemistry, chemistry, anatomy and physiology, microbiology, biochemistry, molecular biology and other pre-health professions courses. The Honors Scholars Program, a program specially designed for academically talented students, provides unique educational experiences to meet the goals and objectives of students interested in the health professions.

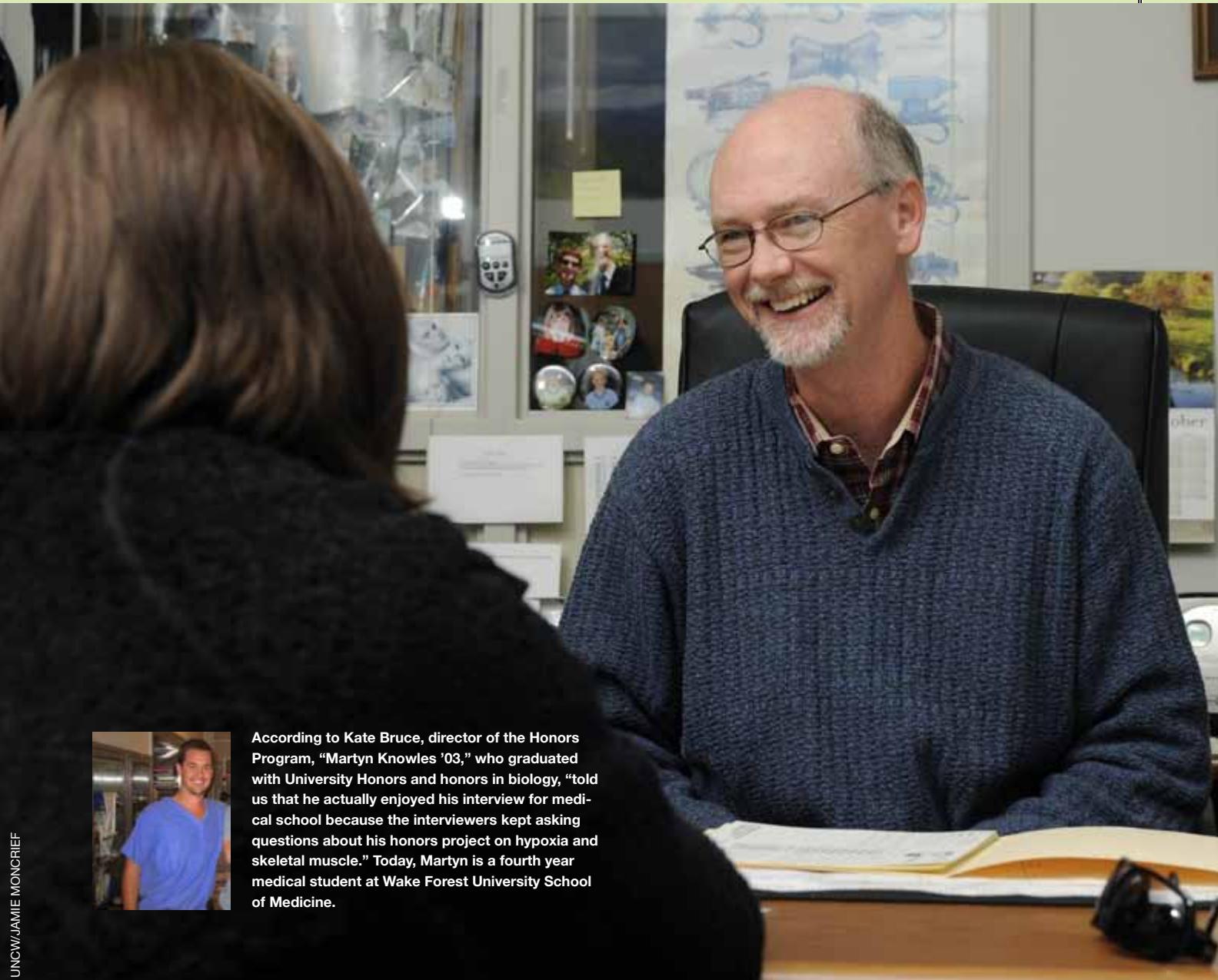
"The Honors Scholars Program is one of the main reasons I chose to attend UNCW, and it played a major part in where I am today," says Sarah Milliken '03, who received her MD last year from the University of Colorado Health Sciences Center School of Medicine, where she was elected primary representative to the American Association of Medical Colleges' Organization of Student Representatives and Western Regional Chair.

A Select Corps On average, only 25 of the approximately 200 freshmen who enter UNCW each year with aspirations to medical, dental, veterinary, pharmacy, podiatry, optometry, physical therapy/occupational therapy and/or biomedical research or clinical laboratory health sciences complete their sequence of courses to graduation. When advisors identify students who do not have the aptitude or academic achievements necessary to make it into the profession of their choice, Ballard works with them to determine where they might fit in other occupations serving the healthcare mission. "He's very honest with them. They appreciate that as well," Posey says.

According to Ballard, these students are "still in the game; are still qualified applicants for other roles in the health and health-related professions." Each year jobs are added to the fields of health care, medicine and pharmaceuticals that offer a wide range of opportunities to help others.



In 2008, 22 of Ballard's advisees were admitted to medical schools and other health professions schools including Des Moines University College of Podiatric Medicine and Surgery; East Carolina University Brody School of Medicine; Purdue University School of Veterinary Medicine; UNC Chapel Hill School of Dentistry; University of New England College of Osteopathic Medicine; and Wake Forest University School of Medicine.



According to Kate Bruce, director of the Honors Program, "Martyn Knowles '03," who graduated with University Honors and honors in biology, "told us that he actually enjoyed his interview for medical school because the interviewers kept asking questions about his honors project on hypoxia and skeletal muscle." Today, Martyn is a fourth year medical student at Wake Forest University School of Medicine.



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UNCW/JAMIE MONCRIEF

Shell mounds placed in the right configuration and in the right location are one strategy for bringing back the native Eastern oyster to North Carolina.

See *Bringing Back the Eastern Oyster*, page 21.